graph twoway rline — Range plot with lines

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Description

A range plot has two y variables, such as high and low daily stock prices or upper and lower 95% confidence limits.

`twoway rline` plots the upper and lower ranges by using lines.

Quick start

Range plot with lines sorted in ascending order by values of `x`

```
twoway rline y1 y2 x, sort
```

Same as above, but specify thick lines

```
twoway rline y1 y2 x, sort lwidth(thick)
```

Same as above, but draw lines using long dashes

```
twoway rline y1 y2 x, sort lwidth(thick) lpattern(longdash)
```

Specify that missing values produce breaks in the lines

```
twoway rline y1 y2 x, sort cmissing(n)
```

Add the title "Y Title" to the y axis

```
twoway rline y1 y2 x, sort ytitle("Y Title")
```

Menu

Graphics > Two-way graph (scatter, line, etc.)

Syntax

```
twoway rline y1var y2var xvar [if] [in] [, options]
```

options	Description
vertical	vertical plot; the default
horizontal	horizontal plot
connect_options	change rendition of lines connecting points
colorvar_options	change color of lines based on values of a variable
axis_choice_options	associate plot with alternative axis
twoway_options	titles, legends, axes, added lines and text, by, regions, name, aspect ratio, etc.

All explicit options are *rightmost*, except `vertical` and `horizontal`, which are *unique*; see [G-4] **Concept: repeated options**.

Options

`vertical` and `horizontal` specify whether the high and low y values are to be presented vertically (the default) or horizontally.

In the default `vertical` case, *y1var* and *y2var* record the minimum and maximum (or maximum and minimum) y values to be graphed against each *xvar* value.

If `horizontal` is specified, the values recorded in *y1var* and *y2var* are plotted in the x direction and *xvar* is treated as the y value.

connect_options change the rendition of the lines connecting the points, including sorting, handling missing observations, and the look of the line—line thickness, pattern, and color. For details, see [G-3] ***connect_options***.

colorvar_options specify that the color of the lines be determined by the levels of the numeric variable *colorvar*; see [G-3] ***colorvar_options***.

axis_choice_options associate the plot with a particular y or x axis on the graph; see [G-3] ***axis_choice_options***.

twoway_options are a set of common options supported by all `twoway` graphs. These options allow you to title graphs, name graphs, control axes and legends, add lines and text, set aspect ratios, create graphs over `by()` groups, and change some advanced settings. See [G-3] ***twoway_options***.

Remarks and examples

Visually, there is no difference between

```
. twoway rline y1var y2var xvar
```

and

```
. twoway line y1var xvar || line y2var xvar, pstyle(p1)
```

The two lines are presented in the same overall style, meaning color, thickness, and pattern.

Also see

[G-2] **graph twoway rarea** — Range plot with area shading

[G-2] **graph twoway rbar** — Range plot with bars

[G-2] **graph twoway rcap** — Range plot with capped spikes

[G-2] **graph twoway rcapsym** — Range plot with spikes capped with marker symbols

[G-2] **graph twoway rconnected** — Range plot with connected lines

[G-2] **graph twoway rscatter** — Range plot with markers

[G-2] **graph twoway rspike** — Range plot with spikes